

## **THIRD SEMESTER**

**Course name: Recent Trends in Geo Informatics Part II**

**Course code: GIS-601**

**Unit schedule**

### **Block 1: LIDAR**

**Unit1: Principles and properties- different LIDAR system, space borne and airborne LIDAR missions, typical parameters of LIDAR system**

1.1 Objectives

1.2 Introduction

1.3 Principles and properties- different LIDAR system, space borne and airborne LIDAR missions, typical parameters of LIDAR system

1.4 Summary

1.5 Glossary

1.6 Answer to check your progress

1.7 References

1.8 Terminal Questions

**Unit2: Data processing- geometric correction, data quality enhancement, filtering LIDAR, mapping applications**

2.1 Objectives

2.2 Introduction

2.3 Data processing- geometric correction, data quality enhancement, filtering LIDAR, mapping applications

2.4 Summary

2.5 Glossary

2.6 Answer to check your progress

2.7 References

2.8 Terminal Questions

### **Block 2: Web GIS**

**Unit3: Web GIS technology**

3.1 Objectives

3.2 Introduction

3.3 Web GIS technology

3.4 Summary

3.5 Glossary

3.6 Answer to check your progress

3.7 References

3.8 Terminal Questions

#### **Unit4: Web GIS architectures**

- 4.1 Objectives
- 4.2 Introduction
- 4.3 Web GIS architectures
- 4.4 Summary
- 4.5 Glossary
- 4.6 Answer to check your progress
- 4.7 References
- 4.8 Terminal Questions

#### **Unit5: Web GIS development**

- 5.1 Objectives
- 5.2 Introduction
- 5.3 Web GIS development
- 5.4 Summary
- 5.5 Glossary
- 5.6 Answer to check your progress
- 5.7 References
- 5.8 Terminal Questions

#### **Unit6: Survey of software and hardware**

- 6.1 Objectives
- 6.2 Introduction
- 6.3 Survey of software and hardware
- 6.4 Summary
- 6.5 Glossary
- 6.6 Answer to check your progress
- 6.7 References
- 6.8 Terminal Questions

#### **Unit7: Web GIS applications & future of web GIS**

- 7.1 Objectives
- 7.2 Introduction
- 7.3 Web GIS applications & future of web GIS
- 7.4 Summary
- 7.5 Glossary
- 7.6 Answer to check your progress
- 7.7 References
- 7.8 Terminal Questions

### **Block 3: Crowded Sourcing**

#### **Unit8: Overview of crowd sourcing**

- 8.1 Objectives
- 8.2 Introduction
- 8.3 Overview of crowd sourcing
- 8.4 Summary

- 8.5 Glossary
- 8.6 Answer to check your progress
- 8.7 References
- 8.8 Terminal Questions

### **Unit9: Mobile apps for crowd sourcing**

- 9.1 Objectives
- 9.2 Introduction
- 9.3 Mobile apps for crowd sourcing
- 9.4 Summary
- 9.5 Glossary
- 9.6 Answer to check your progress
- 9.7 References
- 9.8 Terminal Questions

### **Unit10: Moderation of crowd sourced datasets**

- 10.1 Objectives
- 10.2 Introduction
- 10.3 Moderation of crowd sourced datasets
- 10.4 Summary
- 10.5 Glossary
- 10.6 Answer to check your progress
- 10.7 References
- 10.8 Terminal Questions

### **Unit11: Uploading and visualization of crowd sourcing datasets like bhuvan Portal**

- 11.1 Objectives
- 11.2 Introduction
- 11.3 Uploading and visualization of crowd sourcing datasets like bhuvan Portal
- 11.4 Summary
- 11.5 Glossary
- 11.6 Answer to check your progress
- 11.7 References
- 11.8 Terminal Questions